STATS MATTERS & EVENTS

1 June 2023

I've been back at the office for only two days, so I apologise if this newsletter is somewhat on the "thin" side. I've been busy catching up on emails and have not had much time to peruse the internet for interesting articles for you. I promise to do better next week.

I had a wonderful time overseas and thanks to my capable colleagues and SSA's many volunteers I was able to completely switch off for a month. I'm extremely grateful to Jodi Phillips and Lizzie Russell for keeping things going at the office – thank you so much!

While I don't have any articles this week, I thought I'd leave you with my favourite holiday picture: beautiful Lake Louise in Alberta, Canada. Given that it is the first day of winter today the image of a partially frozen lake seems appropriate.

Until next time.

Kind regards,

Marie-Louise Rankin
Executive Officer
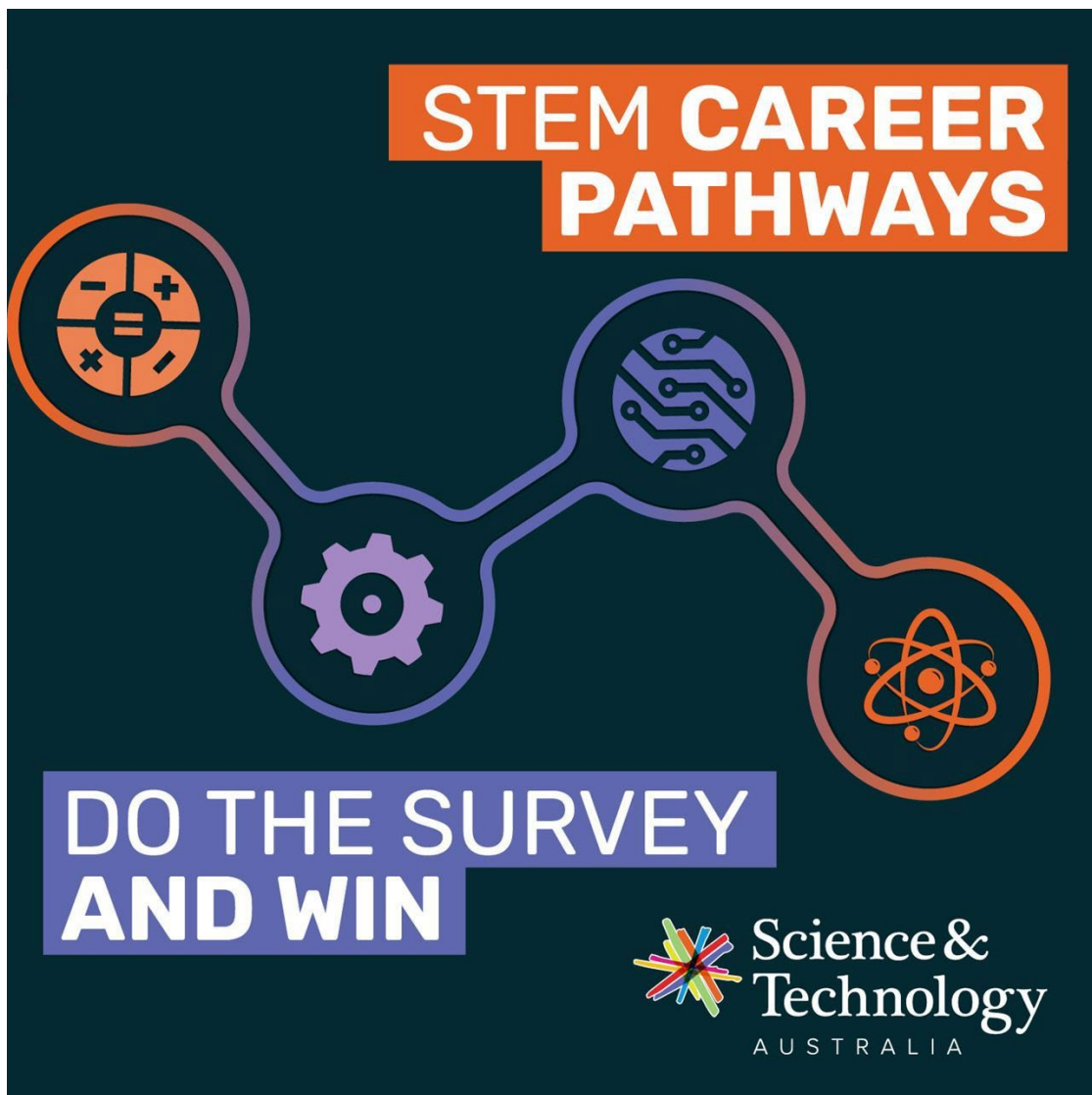
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Science & Technology Australia (STA) needs your help to make it Australia's biggest-ever survey of STEM conditions and careers!

Are you thriving in your STEM career – or not? If you've ever thought about leaving the sector, why was that - and what made you stay? Has your career in STEM been planned – or largely improvised?

STA needs you to share your experiences to create Australia's biggest survey on STEM Career Pathways.

The **STEM Career Pathways survey** will be Australia's most comprehensive snapshot of current conditions and career patterns for scientists, technologists, mathematicians and engineers.

STA also needs to hear from people who have left STEM careers – to know more about why they left.

The study will gather crucial information on workloads, conditions, career development and opportunities for people to move between industry and
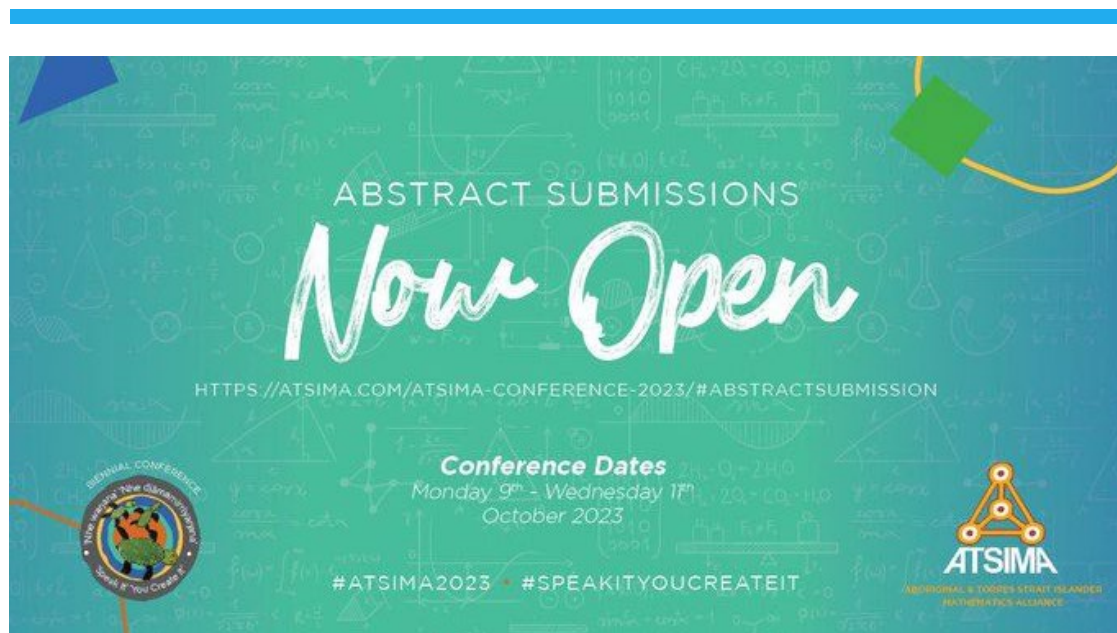
research across Australia's STEM sector.

This survey is being run by [Science & Technology Australia](#) to gather updated evidence on STEM career pathways and movement across the sector.

It will inform research commissioned by the [Office of the Chief Scientist](#) for the Prime Minister's [National Science and Technology Council](#).

The survey takes **around 10 minutes to complete**. It is open to anyone with a STEM qualification and you can respond anonymously. All survey participants can enter the draw to **win one of two $500 JB HiFi vouchers**. The entry form is at the end of the survey.

The [survey is open now](#) and closes on 14 June 2023.

Calling for expressions of interest – ATSIMA Conference 2023

The [ATSIMA (Aboriginal & Torres Strait Islander Mathematics Alliance) 2023 conference](#) will be held from Monday 9th to Wednesday 11th October 2023. ATSIMA is an Indigenous led, non-profit organisation incorporated in 2015. The Statistical Society of Australia (SSA) has been a member of ATSIMA since 2021.

The 2023 event is the first mathematics education conference held in a Yolngu Community. It will provide delegates the opportunity to be immersed in a Yolngu Community, in Yolngu Language and Culture and explore the teaching and learning of mathematics that values Aboriginal and Torres Strait Islander cultures.

ATSIMA conferences attract a wide range of people from all states and territories, leaders in education from the public and private sector and many

other industries Australia wide, engaged in frontline education, in curriculum development, and from Government organisations and industry.

Interested? The Statistical Society of Australia (SSA) is sponsoring one member to attend the inaugural conference. The Society will cover your registration fee and your travel and accommodation expenses. Please send your application to eo@statsoc.org.au by 5pm AEST on *Thursday, 15 June 2023*. Members with an Aboriginal & Torres Strait Islander background are especially encouraged to apply.

Find out more

SSA Events

Statistical Consulting Network May Meet-Up

30 June 2023, 12:30 PM – 1:30 PM AEST, held online

Come along with your thinking cap, maybe a problem, and some lunch!

The Statistical Consulting Network invites you to their monthly meet-up, a virtual lunchtime meeting where statisticians help each other out with problems that they aren't sure how to deal with. This virtual meeting is held on Zoom at lunchtime on the last Friday of each month, 12:30-1:30 PM (AEDT). We start each meet-up with announcements, or occasionally a special topic discussion, then discuss problems that attendees have brought along with them.

We also have a Slack workspace where members of the consulting network can communicate between meetings, or post problems or relevant materials they would like to discuss during a meeting.

Zoom link

Slack Workspace link

SSA WA: Perth Biostats/Bioinfo Meetup 2023

13 Jun 2023, 5:30 PM – 7:30 PM (AWST)

McCusker Auditorium, Harry Perkins Institute of Medical Research (North), Nedlands

We're pleased to invite you to the Perth Biostatistics/Bioinformatics Meetup. This is a joint event supported by the [WA Branch](#) of the Statistical Society of Australia (SSA), the SSA [Biostatistics and Bioinformatics Section](#), [Clinical Trials Enablement Platform WA](#) (CTEP-WA), [Perth Epidemiological Group](#) (PEG), and the [WA Health Translation Network](#) (WAHTN).

The purpose of this event is to bring together those with expertise and/or interest in medical and healthcare statistics in Perth. It is an opportunity to socialise and network, and encourage upcoming professionals to pursue a career in this worthwhile field.

There will be three invited speakers this evening: Dr Rich Edwards (UWA) and two researchers from Biometrics at Telethon Kids Institute.

To register click [here](#).

Vic&Tas Branch, SSA: Novel applications of cross-sectoral data linkage to understand and reduce health inequities among Australians in contact with the criminal justice system

15 Jun 2023, 6:00 PM (AEST), in person TBC or online via Zoom

Join the [SSA Vic & Tas branch](#) as we hear from **Professor Stuart Kinner** and **Lindsay Pearce** on their work using large, cross-sectoral data linkages, including important research design, and data management, analysis, and governance aspects.

Click [here](#) to register and get more information.

SSA ECSSN and NZSA joint webinar

Much more than just fitting models - perspective from an applied statistical scientist, presented by Olivia Angelin-Bonnet.

22 June 2023 2pm AEST, 4PM NZST

In this talk, Olivia Angelin-Bonnet will be giving an overview of her role as a statistical scientist working in the fields of Systems Biology and multi-omics integration. In particular, she will discuss how being an applied data scientist is about much more than just fitting models. Olivia will talk about how modern statistician and data science roles involve working with big and messy datasets, developing complex analysis pipelines, communicating results

through reports and presentations, and implementing tools for disseminating our work. A number of principles and tools (e.g. data and code versioning, unit testing, workflow management systems) can support us through these activities to ensure our work is sustainable and reproducible. She will argue that mastering these principles is rapidly becoming a core competency for the modern statistical scientist.

To register click here.

NSW Branch, SSA: June event: Prof Lucy Marshall - Quantifying the known unknowns

27 Jun 2023, 12:30 PM – 3:00 PM (AEST), 14SCO T2 Theatre, Macquarie University and via Zoom

Environmental models are essential tools for understanding complex natural systems and predicting the impacts of human activities on the environment. By simulating the behavior of physical, chemical, and biological processes in natural systems, environmental models can help make informed decisions about environmental management, policy, and planning. Environmental modeling has undergone significant advancements in recent years, transitioning from simplistic representations of ecological systems to sophisticated and integrated modeling platforms. However, these opportunities heighten the debate about the use of methods like machine learning in disciplines like hydrology, ecology, or biogeochemistry, that traditionally has relied on the knowledge of natural and engineered systems for model development (also known as 'physically-based' models). This presentation will provide insight into these issues across a range of modeling scenarios with a focus on Bayesian inference and its application to environmental systems

To register click here.

Other events

IASE webinar - 15 June 2023, 6:00 am Sydney

The International Association for Statistical Education (IASE) presents its June webinar:

Leandro Souza, Universidade Federal de Uberlândia, plans to connect two

topics: statistics disinformation (fake news phenomena) and critical education.

Details about the webinar are on the [IASE webinar page](#).

Statistical Bioinformatics Seminar Series
The Judith and David Coffey Seminar
Monday, 5 June 2023 1:00-2:00 PM (AEST)

Can recent advances in machine learning help feed the world?

About the speaker: Professor Hayes has extensive research experience in genetic improvement of livestock, crop, pasture and aquaculture species, with a focus on integration of genomic information into breeding programs, including leading many large scale projects which have successfully implemented genomic technologies in livestock and cropping industries. Author of more than 300 journal papers, including in Nature Genetics, Nature Reviews Genetics, and Science, contributing to statistical methodology for genomic, microbiome and metagenomic profile predictions, quantitative genetics including knowledge of genetic mechanisms underlying complex traits, and development of bioinformatics pipelines for sequence analysis. Highly cited researcher 2015 - 2022.

Professor Ben Hayes
University of Queensland

Join us at CPC Level 6 or Zoom ID: 84087321707
Brought to you by the Charles Perkins Centre and the Sydney Precision Data Science Centre

ACSPRI (Australian Consortium for Social and Political Research Inc) Courses

This Winter, **enrol in an ACSPRI Social Science Methodology course** and enhance your research skills.

Courses are all 'live on line', capped at 12 people, and will give you to opportunity to apply the skills while you are learning.

ICME-15: Call for Topic Study Group Paper and Poster Submissions

The 15th International Congress on Mathematical Education invites the submission of Papers and Poster Proposals to Topic Study Group (TSGs).

TSGs are a unique opportunity to collaboratively explore classic and contemporary topics relevant to mathematics education through the submission of papers, session-based discussions, and report synthesis. Read more about the TSGs available at ICME-15 and learn how to submit today.

[Topic Study Group](#) Submissions will close on 18 August 2023. Refer to the Congress website for the full timeline of this activity.

[Find out more.](#)

AMSI Winter School 2023 on Modelling our Changing Biosphere, 3-14 July, QUT and online

Apply now for two jam-packed weeks of lectures, program extras and networking activities at AMSI Winter School 2023 hosted by Queensland University of Technology from 3-14 July!

Join other postgraduate students, early-career researchers and industry practitioners in Brisbane on online to deepen your knowledge in mathematical modelling of our changing biosphere with modules on:

- natural resources modelling
- evolutionary game theory
- reinforcement learning for realistic ecosystem management
- analysing sloppiness of simulation models
- Sequential Monte Carlo methods

In addition to the courses, the program includes participant talks, a careers session, lunchtime lectures, a public lecture by Professor Hugh Possingham and networking events. Travel grants are available for students at [AMSI Member Universities](#) providing 13 nights accommodation in a student college and/or flight funding to attend in Brisbane.
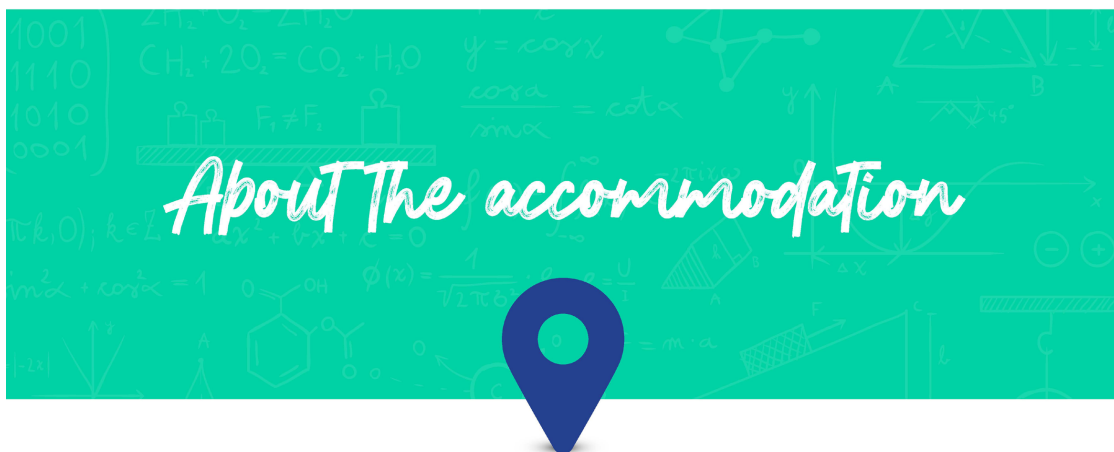
Applications close by 12 June. Apply [here](#).

'Nhe waŋana' 'Nhe djämamirriyaŋa'

'Speak It' 'You Create It'

'Nhe Waŋana' 'Nhe Djämamirriyaŋa'

'Speak iT' 'You Create iT'

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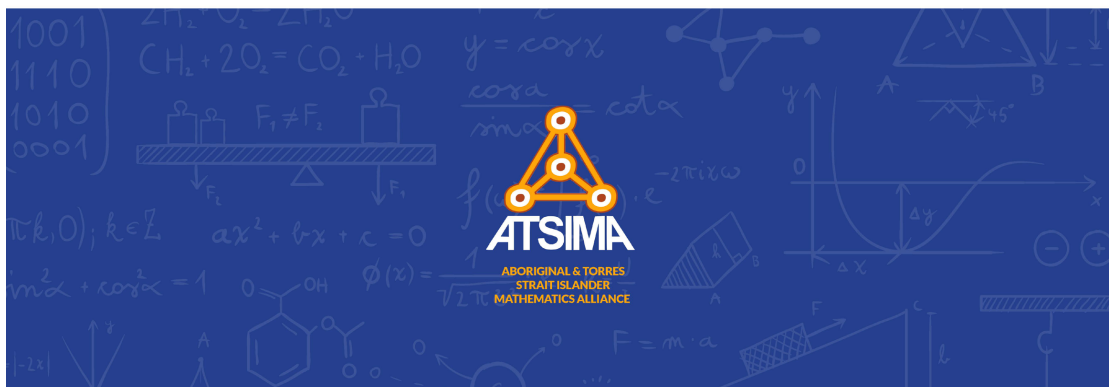
About The accommodation

All accommodation in the area is blocked booked by ATSIMA
and will be available via registration.

To find out more and register your expression of interest here
https://atsima.com/biennial-conference-2023/

Sponsorship opportunities are available see conference prospectus here
https://atsima.com/wp-content/uploads/2023/04/sponsorshipProspectus.pdf

Save the date – ADSN Conference 2023

The dates for this year's Australian Data and Science Network (ADSN) Conference have been announced:

Thursday and Friday - 7-8 December 2023 at the

National Wine Centre of Australia, The University of Adelaide

JOINT EVENT: 56th Annual Convention of ORSI (2023-ORSI) and 10th International Conference on Business Analytics and Intelligence (2023-ICBAI)

18-20 December 2023, J.N. Tata Auditorium, IISc Bangalore, INDIA.

[Find out more.](#)

Make the most of your time finding the right niche talent with SSA's Career Center

Here are some of the most effective recruitment solutions [the Statistical Society of Australia Career Center](#) offers that you can utilise to find the right candidate for the position you need to fill.

1. **Advertising Options** - Regardless of your staffing needs or budget, we have multiple recruitment products available that are right for your organization.
2. **Resume Bank** - Search, find, and contact qualified professionals.
3. **Talent and Diversity Upgrades** - Distribute your job to a network of more than 1,000 recruitment sites, including sites that are marketed specifically to attract diverse or veteran candidates.

[Check out the SSA Career Centre](#)

Current Vacancies in SSA's Career Centre

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Australian Capital Territory

Australian National University

Classification:ANU Academic Level B Salary package: ...

[Revenue Officer- DIRECT HIRE (12 Month Register)](#)

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